5

| 54 GGT | 108 AAC | 162 AGG | 216 TTG | Ы | 270 GTT | > | 324 AAG | × |
|----------------|---------------|------------|--------------------|--------------|----------------|---------|----------------|---|
| T'T'T | CTC | TAA | CTG | ы | AAG | M | ACA | H |
| \mathtt{TAT} | ATT | AAC | GCA | Ą | ACA | H | TCC | W |
| 45 ATT | 99 GAA | 153 GTA | 207 TTG | IJ | 261 TCC | W | 315 AAC | Z |
| GCA | GAA | TCT | CTA | Ц | AAC | Z | AAC | Z |
| $_{ m TCT}$ | TCA | CAA | TCA | Ø | CAG | ŏ | TGG | M |
| 36 ATA | 90 GCT | 144 Gaa | 198 AAG | X | 252 TTC | ഥ | 306 TAC | ⊱ |
| CTT | GTG | ATT | TAT | ≻ | GTT | \land | CAT | Ħ |
| CAA | CTG | GGG | AAT | Z | ACA | H | CTC | ᆡ |
| 27 CTG | 81 ACA | 135 TAT | 189 ATA | Н | 243 TTT | ĪΉ | 297 TCC | Ŋ |
| AAA | AGC | ATG | ATG | \mathbb{Z} | ATT | Н | ATC | Н |
| AAC | AGT | TCT | AGT | W | ATC | Н | TCC | W |
| 18 GTA | 72 GCC | 126 GAG | 180 ATA | Η | 234 TGG | M | 288 TTA | Ц |
| AAG | TAT | AGA | AAA | × | TCC | Ø | AAC | Z |
| CTA | AGG | CC | ATG | X | 9 1 1 | Ø | CTA | Ц |
| 9 ATG | 63 AAG | 117 CTC | 171 ATC | | 225 TTA | J | 279 GCT | A |
| 9 A TCC ATG | 63 GAC AAG | TAG | 171 ATC CTA ATC | | ATA | Н | TCT | Ω |
| A | ATA | ACC | ATC | | LLL | ĪΉ | TGG | M |

FIGURE 1A

| 378 GAA | 432 CCT | 486 CTC | 540 GTG | 594 AGG |
|----------------|----------------|----------------|----------------------|-----------------|
| ACT T | AGA R | ATC I | GAG E | GCC |
| GAG E | CCC | ACC | CTG | AGG R |
| 369 ACA | 423 CCA | 477 GCC | 531 CTG | 585 CTG |
| CTA | ATC | ACA | ATC I | TT I |
| CCA P | CAG | AGC | CAC H | GAT |
| 360 AAG | 414 CAG | 468 CAT | 522 CTG | 576 GGG |
| TTA L | GAT D | ACA | CAG Q | 9 299 299 |
| TCA S | CTA L | GCC | GAC D | TAT |
| 351 ATA | 405 AAA | 459 AGC | 513 GGA | 567 CAA |
| CTG | GAG E | ACC | AGG | AAG K |
| CCA P | ATA | ACC | 11 13 10 11 | AGG R |
| 342 ACA | 396 ATC | 450 ACC | 504 TAC | 558 CGC |
| AAA K | GAA E | AAC N | ACG | GGA |
| CCT | AAG K | GTG | GAT D | TTG |
| 333 TTC | 387 ATA | 441 CAC | 495 CGA | 549 CAC |
| TTA | | ACC | | GAC D |
| H H CC | CTC | TTC F | AAC N | AGG R |

FIGURE 1B

| 648 AAC | | 702 CTG | Н | 756 AGG | 凶 | 810 TCC | Ø | 864 CAG | Õ |
|------------|-----------------|----------------|------------------|----------------|------------------|--|---------------|----------------|------------------|
| TTC | [±, | TCT | Ø | GCA | Ø | ACT | E | TGC | U |
| GAC | | GTC | \triangleright | AGT | Ø | 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | Ö | TTG | Ы |
| 639 ACT | [- | 693 CAG | Q | 747 TGG | M | 801 AAT | Z | 855 GAA | 团 |
| GTG | > | 0 1 | r U | CTC | Ц | GTC | > | GCT | A |
| AAG | K | GAG | 闰 | GCT | A | T.T.T | ĮΉ | AAT | Z |
| 630 GGA | ָ ט | 684 TGG | Μ | 738 TCA | W | 792 CAG | Ø | 846 ACA | Ħ |
| TCA | Ω ! | TTC | ᄺ | GTG | \triangleright | CGC | Ŋ | AAC | Z |
| GCT | - 4 | CTG | Ы | B | Ċ | ACT | E | CTA | Н |
| 621 GGT | ן ט | 675 ACT | H | 729 GAA | 闰 | 783 TTC | l I III | 837 ATC | Н |
| GCA | A | TTC | ፲ | AGT | Ø | ATC | H | CTG 1 | Ц |
| ATG | Σ | AGC | Ω | 1 CC | Д | GTG | | GGC | Ü |
| 612 CTG | Ι Ι Ι | 666 GTC | \triangleright | 720 CAC | 耳 | 774 AGG | l l K | 828 TGT | Ŋ |
| CCG | } | CTG | 긔 | ATC | Н | GAC |] П | GAA | 团 |
| CCA | <u> </u> | TAC | \prec | CTC | Ы | TAT | } | TCT | Ø |
| 603 TCC | | 657 ACC | | 711 CTG | ıП | 765 GGC | ן י ט י | 819 CAC | Ħ |
| | i w | 1 1 | Ö | CTG | ᆸ | CAA | l o | GTC | \triangleright |
| ATG | - - <u>V</u> | AAC (| N | TCT | Ø | AAC | | CAA | Ø |

FIGURE 1C

| 918 ATG | 972 CTT | 1026 ATG | \mathbb{Z} | 1080 . GAT | Д | 1134 AAC | |
|---|-----------------------------|---------------------|--------------|-----------------|------------------|-----------------|-------------|
| CAC H | TAT Y | 1 ATT | Н | GTG | > | 1 AGG | ద |
| CAA Q | S I C | GAG | 臼 | TCA | | GAT | Ω |
| 909 CCT | 963 GTT | 1017 GGT GTA | > | 1071 CTG AAG | X | 1125 TTG | |
| AGG R | AAA K | GGT | ტ | | | GAT G | Д |
| GTG | AAG K | GTG | | ACA | | GTG | |
| 900 TGT | 954 AAC | 1008 TCA AAT | Z | 1062 TGC AAC | Z | 1116 CTT GCT | А |
| TAC Y | AAG K | TCA | Ø | TGC 1 | Ŋ | CTT | 긔 |
| 1 T T C I I I | TCT | AGG | 凶 | AAA | X | CAG | Ø |
| 891 GGC | 945 TAT | 999 GAA | 闰 | 1053 TCC | | 1107 CAC | |
| GAA E | ATG M | TTT | ĹΉ | 1 GTC | \triangleright | 1 CAA | 0 |
| CAA 0 | CAC H | CTC | П | AGT | Ŋ | TTG | |
| 882 GAC | 936 ACT | 990 AGC | Ŋ | | l H | 1098 GGA AAA | |
| AGA R | CTC | AAG | X | 1 ACA | ! ! | GGA | ן ה ה |
| AAC N | GCA A | GAA | | AAT | | _ | N I |
| 873 GAC | 927 TGT GCT (C A | 981 AAA CAA | Ø | 1035 AAA TTC | ፲ਸ਼ | 1089 CAT GAA | 田 |
| - L - L - L - L - L - L - L - L - L - L | 1 d | AAA | X | AAA | X | | |
| TAC (| CCC | AGC | \ \ | GAA | 団 | CTG | 1 |

FIGURE 1D

| 1188 TAT | .242 GAA | 1296 ATT | Н | 1350 CTT CTT | Ц | 1404 GAG ATG | Z |
|----------------------------|----------------------------|-----------------|---------------|---------------------|------------------|---------------------|-------------|
| 1188 ACC TAT T Y | 1242 GGA GAA G E | 1296 CCC ATT | Д | CTT | Ц | | 闰 |
| ATG M | GGA G | TTT - | | CAT | | AGG | |
| 1179 TCA | 1233 AGA ACT R T | 1287 AGA CCC | Д | 1341 ATT CAG | Q | 1395 AAC ATC | Н |
| GGA G | AGA R | AGA | ద | ATT | Н | | |
| ATA | GAC D | TTC | | GCC 1 | A | GAA | ᅜᆁ |
| 1170 CCC TTG P L | 1224 : ATT | 1278 CAG CAT | 出 | 1332 CAC AAA (| X | 1386 AAA ACA (| H |
| CCC | GCC | CAG | a | CAC | Ħ | , , , | X |
| TAT | CGG R | CCC | t U | GTC | \triangleright | ATC | |
| 1161 'TGT | 1215 CTC ACC L T | 1269 TCC CTG | - | 1323 CTC AAT | L | 1377 GTT ATC | |
| TAT | CTC | | | | П | | |
| AAA K | TAC | ATT | 1 1 H | 225 | | ATG | \boxtimes |
| 1152 CAA | 1206 M E | 1260 'GTT | · > | 1314 CGA AGG | ద | | H |
| 1152 TGG CAA | 1206 ATG GAG M E | 1260 ATT GTT | H | | ద | GAC | Q |
| CAG 2 | GAG E | | > | ATC | ! ! H ! | CCA | Ц |
| 1143 7 ATC 1 | 1197 3TC AAA V K | 1251 AAT ACT | [-] | 1305 GTT TTT | ፲ਸ਼ | 1359 AGA AGC | i N |
| 1143 AAC ATC N I | 1197 GTC AAA V K | AAT | l l l | GTT | | AGA | i i i |
| ATC I | TCA | AAA | | GAT | l П | CTG | ļ |

FIGURE 1E

| ~ [] | | 01 1 | | 10 EI 1 | | - 6 | |
|---------------------|------------------------|-------------------------|------------------|-------------------|------------------|---------------------|---|
| 1458 ATC | Н | 1512 ATA | Н | 1566 AAT | Z | Ø | |
| 1458 CTC ATC | Ы | 1 GAT . | О | 1 GGA | Ŋ | AAA | |
| TAT | ¦≯ | TGG | M | GTC | > | AAA | |
| ٠ | i Q | .503 GCC | Ø | 1557 ' GTA | \triangleright | 1611 AAA AAA | |
| | H | 1 GAT | Ω | CAT | 田 | | |
| TAC | } | ATT | Н | CAA | O, | ACA | |
| 44 GG | ן ה ו | 1494 AGT ATC | Н | 1548 CCT | Д | 1602 TAA ATA | |
| 1 CAT | H | • | လ | CCA | а | _ | |
| LLL | 년 | GTG | \triangleright | CAC | Ħ | TGT | Ŋ |
| 1431 AGT GAC | D | 1485 AGT | ß | 1539 ' GTA | \triangleright | 1593 ATT | H |
| 1 AGT | ທ | CTC | 口 | 1 AAT | Z | 1 TAT | ≯ |
| LLL | [1 4 | GAT | О | AAT | Z | AAC | Z |
| 1422 A AGA | <u> </u> | 1476 CAG | Õ | 1530 ACA | H | 1584 1 TTA | Ы |
| 1 GAA | 田 | 1 TTC | ഥ | 000 | Ŋ | TT2 | Ц |
| GCA | | ATT | Н | TAT | × | ATA | Н |
| 1413 GAT | 0 | 1467 GAC | О | 1521 GCA | I A | 1575 AAT | Z |
| 1413 TAC AAT GAT | | AAG | × | ATT | | 1575 CAG ATT AAT | |
| TAC | > | 1467 ATA AAG GAC | H | ACA | | CAG | Ø |

FIGURE 1F

5

| 54 AT'T | 108 AAG | 162 ATG | 216 GTA | 270 GCT | 324 TTC |
|------------|-------------------|--------------------|----------------|----------------|----------------|
| ATC | AGG | GIC | TCA | TCT | TTA L |
| GAG | AGG | TTC | T'T'T F | TGG | TCC |
| 45 GGA | 99 GGA | 153 ACA | 207 TCT | 261 CTT | 315 AAG |
| ATA | CCT | AGG | ATC I | AAG K | GCA |
| CAG | GGT | AAT | TTG | ACA T | TCC |
| 36 ACC | 90 TGG | 144 TCC | 198 ATC | 252 TTC | 306 AAC |
| GCC | TAT | GTA | CTG | AAC | AAC N |
| CCA | ACC | GAA | CTG | CAG | TGG |
| 27 TTT | 81 GAC | 135 CAA | 189 ACG | 243 TCT | 297 TAC |
| ACT | CCT | CGA | AAA K | ATT I | CAT H |
| GGT | CTA | CCT | CAA | ATA I | GTC |
| 18 ACA | 72 GTG | 126 AAA | 180 CTT | 234 TTT | 288 TCT |
| CTC | TCT | GTG | ATG M | ATT I | ATC |
| GAA | CAT | TGA | ACA | ATG | TCC |
| 9 TAA | 63 GTG | 117 TCC | 171 AAT | 225 TGG | 279 TTA |
| GCC AGT | ACA | 117 CAA CAA TCC | TCA | ACC | AAC N |
| BCC | 63 AAA ACA GTG | CAA | TCC | GTA | CTA L |

FIGURE 2A

| 378 ATA | Н | 432 CAT | 486 CGA | 540 CAC | 594 TCC |
|------------|-------------|----------------|----------------|----------------|----------------|
| AGA | 껁 | ACC | CCT P | GAC D | TCC |
| CTC | П | TT - F - F | AAC | AGG | ATG |
| 369 GAA | 闰 | 423 CCT | 477 CTC | 531 GTG | 585 AGG |
| ACT | ⊟ | AGA R | ATC III | GAG E | GCC |
| GAG | 団 | 000 P P | ACC | CTG | AGG R |
| 360 ACA | ¦ ⊟ | 414 CCA | 468 GCC | 522 CTA | 576 CTG |
| CTA | ļ | ATC | ACA | ATC I | TTC |
| CCA | і 1 Д | CAG | AGC S | GAC D | GAT |
| 351 AAG | K | 405 CAG | 459 CAC | 513 CTG | 567 GGG |
| TTA | i i i | GAT D | ACA T | CAG O | GGT |
| CCA | I I Д | CTA | GCC | GAC | TAT Y |
| 342 ATA | ļ H | 396 AAA | 450 AGT | 504 GGA | 558 CAA |
| CTG | - | GAG E | ACC | AGG | AAG K |
| TCA | ι Γ | АТА | ACC | TGC C | AGG R |
| 333 ACA | ! | 387 ATC | 441 ACC | 495 TAC | 549 CAG |
| AAA | \ | GAA E | AAC | | GGA |
| CCT | 1 | AAG K | GTG | GAT D | TIG |

FIGURE 2B

| 648 ACC | [- | 702 CTG | 756 GGC | 810 TTC | ј Гті І | 864 GAT | |
|------------|------------------|----------------------|----------------|------------|---------------|---|--|
| GGC | l D | CTG L | CAA | GTC | > | CTG | |
| AAT | | TCT | AAC N | CAT | 田 | TAT | |
| 639 AAC | | 693 CTG | 747 AGG | 801 TCT | i ຜ i | 855 GAA | |
| ŢŢĊ | ፲ੑੑੑੑੑ | TCC | GCA A | ACC | [| 7G7 | |
| GAC | | GTC | AGG R | CGC | ט | CTC | |
| 630 ATG | \(\S | 684 CAG | 738 TGG | 792 AAT | | 846 GAA | |
| GTG | | GGC D | CTC | GTT | > | GCT | |
| AAG | | GAG E | GCT | _ | ፲ਸ਼ | AAT N | |
| 621 GGA | ן ט | 675 TGG | 729 TCG | 783 AAA | X | 837 TCA | |
| TCA | i w | 11 11 11 11 | QC 4 | 3.5 GGC | ן ט | AAC N | |
| GCT | - H | CTG | 999 | AAA | | CTA L | |
| 612 GGT | " | 666 ACT | 720 GAA | 774 TTC | [± | 828 ACC | |
| GCA | A | TTC | AGT | ATT | ¦н | CTG | |
| ACG | | AGC | CCC | ATT |] H | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | |
| 603 CTG | 1 | 657 GTC | 711 CAC | 765 AAA | | 819 TGT | |
| GCA | 4 | CTG | ATC | GAT | ГО | GAA E | |
| | <u>Г</u> | TAC | CTC | TAT | > | ACT | |
| | | | | | | | |

FIGURE 2C

| 918 GAG | 972 AAG | 1026 CGT | 以 | 1080 . TGC | Ö | 1134 TGG | M |
|-----------------|----------------|---------------------|--------------|-----------------|----------------|---------------------|----------------------------|
| TGT | GAC D | 1026 GAT CGT | Ω | 1080 ACA TGC | H | 1 AAA ' | × |
| | ACA | AAG | X | GAG | | GGA | Ŋ |
| 909 ATG | 963 CTT | 1017 ATG ATG | Z | 1071 ATA GAA | 뙤 | 1125 CAA | Ø |
| CAC H | TAT Y | ATG. | M | | | TTA | П |
| CAA | T I CI | GAA | | AAA | | ACT | H |
| 900 CCT | 954 GTA | 1008 GGA GTT | > | 1062 GAA | 汩 | 1116 'TAT' | |
| AAG K | GAG E | GGA | t to | AGA | ద | GGI | Ċ |
| ATG | AGA R | GTG | > | AAG | 저 | GGT | Ŋ |
| 891 TGT C | 945 AAT | | i K | 1053 AAC | Z | 1107 GTC CCT | |
| TAT Y | CG D A | JCC | I I I | 10^{-1} | ر ا | GTC | |
| ТТС - Н | ACC | AGG | 兄 | AAT | | | I I I |
| 882 GCC | 936 ACC | 990 CAC | - H | | l ! [→ ! | | I I Д ; I |
| GAA E | ATG M | TTC | ፲ੑੑੑਜ਼ | | | AAG | ス |
| CAA | TAC | CTT | | • | 1 1 1 | | \bullet |
| 873 GAC | 927 ACC | 981 AGC | ຜ | 1035 ATT | H | 1089 'GGA | D |
| AGA R | CIG | AAC | - | CAC | I H I | GTT | > |
| GAC | GCT | GAA 2 | 田 | AAA | | 1089 CAA GTT GGA | ¦ ¤ |

FIGURE 2D

| 1188 TGT | 1242 ATC | 1296 . ACT | 1350 ATT CAA I Q | 1404 ATA GAT I D |
|----------------------------|----------------------------|--------------------------------|----------------------------|------------------------------|
| 11. GGC ' | 1242 TGG ATC | 12 GAA / E | ATT I | ATA T |
| AAT N | CAG Q | CAT H | CAG 2 | CTG |
| 1179 ATA | 1233 CTA CGT L R | 1287 3AT CTT D L | 1341 CAC ACT H T | 1395 C TAC TCT Y S |
| AAG K | CTA L | 1287 GAT CTT D L | CAC | TAC |
| ATT I | ACA T | TT - F - F | AGA R | CTC |
| | 224 TCT | 1278 TTT | 1332 GCA GAA A E | 1386 CAG |
| 1170 GAC ACA D T | GAC GAC D | 1 AAG K | GCA | TTC |
| TTA L | GGA G | CTG L | GAT D | ACT T |
| 1161 CAG | | 1269 A AAA ACA C K T | 1323 CTT CTG L L | 1377 TTC GTC F V |
| 1 GTT | 1215 CTC CTG L L | AAA K | CTT | TT I |
| CAG | TAC | GE | TTG | CCC |
| | 1206 ATT | 1260 AAA GTT K V | 1314 AAA CAT K H | 1368 AGC TAT S Y |
| 1152 TGC AAC C N | 1206 CTC ATT L I | AAA | AAA K | AGC S |
| TTT F | AAA K | CCC | AAG K | CAT H |
| 1143 A ACA | 1197 GGC | 1251 TTC | 1305 TTT | 1359 AAA AAA K K |
| AC? | 1197 AAA GGC K G | 1251 TAC TTC Y F | ATC | |
| ATA | TTG | TAC Y | GGA . | TGG |

FIGURE 2E

| 1458 GCC | A | 1512 ATT | 1566 CCA | _ _ _ | 1620 ACA | H | 1674 ATT | Н |
|---------------------|-------------|---------------------|------------------------|--------------------|-----------------|------------------------|-----------------|----------------------|
| 1458 ACA GCC | | 1512 TTT ATT | U | w | 16 GAG 7 | | 1(GAT 7 | |
| AAC A | | ATT 7 | 4. | 14 | ATA (| H | AAG | M |
| 1449 AAA | | 503 GAC | 557 CTA | | 611 CAC | H | 1665 ATG | Z |
| 1 GAC | | 1 ATT | 7) | [<u>r</u> . | 1 ATG | i E | ATC | Н |
| _ | l D | CCC | CTG | 1 | GAG | [<u>1</u>] | CTT | ו |
| | i N | 1494 TTT | LO ⊲: | i K | 1602 AGG | K | | I ⊁ |
| \vdash | ļ | < r | r 1 GAA | 団 | ATC | ! ! H ! | 1 CAC | 耳 |
| CGG | 124 | AGA | ATT | ļн | AAC | | ATT | H |
| 1431 'GAC | <u> </u> | 4 F I | н г 1539 AAG GCT | A | 1593 . GAA | 団 | 1647 GGT TAT | } |
| | H | 1 CAC | n J AAG | | 1 ACA | [| GGT | ඛ |
| GAA | 団 | CAG | CAA | 0 | AAG | 区 | CAT | 日 |
| 1422 | i i i | 40 | ь с 1530 сст стт | > | 1584 ' AT'T | l l l | 1638 GAC TTC | [과 |
| 1 CCT | | F4 1 | F. GGT | ტ | 1 ATT | H | GAC | Ω |
| ATC | H | ACC | T. ATC | H | GTG | | GGA | ן ה |
| 1413 TAT | > | 1467 ATC | V 1 1521 AGG GCC | 4 | 1575 ACT AAA | \ | 1629 F TTT | |
| 1413 CAT GAT TAT | 0 | GTC | | | ACT | [- | AGG | i i K |
| CAT | H | ATC | H 00 | . I R | SCC | - K | GAG | 円 |

FIGURE 2F

| 1728 GCA TAT A Y | 1782 AAC ATG N M | 1836 GAA CCA | 1890 TTA GGA | 1944 TAA GGA | 1998 AAT GAC | 2052 TTA AAA |
|----------------------------|----------------------------|----------------------------|-----------------|---------------------|---------------------|---------------------|
| ATT G(I 7 | ATT A | TAG G | ATT T | ATG I | AAG A | TTT |
| 719 ACC | 1773 AAT CAG N Q | 1827 aat cac | 1881 TTA CTC | 1935 AAG GCT | 1989 TTC ATG | 2043 AAA AGT |
| ATG | | | TLL | | | |
| GAC D | GGA G | CAA | GTT | AGG | TCA | TAA |
| 1710 TGG | 1764 ATT | 1818 ACT ATA | 1872 3 TAA | 1926 TTG GGG | 1980 AGA GAA | 2034 AAA TAT |
| 1710 GCC TGG A W | 1764 GTG ATT | ACT | 1 AAG | TTG | | |
| GAT | CAT H | AAT | GTA | TGT | CCA | TTA |
| 1701 : ATT : | 1755 CCT GAT P D | 1809 ATA | 1863 ' ATT | 1917 AGA ATC | 1971 GCA AAA | 2025 GCT CGT |
| 1701 ATC ATT I I | 1 CCT | 999 | TGI | | | |
|) 1 - 1 - 1 1 - 1 | CCA | TAA | ACA | AAA | GAT | GAT |
| 1692 GTG | 1746 ATC CAC I H | 1800 ATT TGC I C | 1854 AAT CCC | 1908 AAA TTT | 1962 ATA AGG | 2016 , TCT |
| AAC | ATC - I | AUT I | | • | - | GGI |
| CTC | ACT T | TAC Y | CAT | AAT | CTG | CCT |
| 1683 GAC | 1737 GAC | 1791 TTA AAC L N | 1845 GCA | 1899 GAA | 1953 A CAA | 2007 ATG |
| 1683 TTC AAA GAC F | ACT | TTP | TCI | 1899 ACT AAG GAA | 1953 CAA TGA CAA | 2007 TAT ACC ATG |
| F | 0.00 1.1.1 1.1.1 | T H D | ATC | ACT | CAA | TAT |

FIGURE 2G

PH 1/19 THE STATE OF THE STATE

| 2106 | 2160 | 2214 | |
|-------------------------|---|-------------------------|--------------------------------------|
| TGC TTT CTA | GCA ATG | AGA ACC | |
| rgc T | GB G | TTA A | |
| 2097 | 2151 | 2205 | |
| A TGA 1 | C CTA (| TGA TGT CTA | |
| AT TC | AA GG | IG TG | |
| 2088 2097 | 2133 2142 2151 | 2187 2196 | BAA G 3' |
| TGT ACA AAT TCA TGA | CCT AGC TCT GTC TAT TGA AAA GGC CTA GGA | CTC CGA GCA CCC TAA CTG | |
| ATC I | GTC 1 | GCA (| CTT (|
| 2079 | 2133 | 2187 | 2241 |
| GAA AAT | AGC TCT | CTC CGA | GGC ATC |
| TTT | CCI | TCA | AGA |
| 2070 2079 | 2124 | 2178 | 2232 2241 |
| AGC TGA TTT GAA AAT ATC | ATA TTT | CAA TAA TCA | TAA AAG AAA AGA GGC ATC CTT GAA G 3' |
| TTA | TAG | TAG | TAA |
| 2061 | 2115 | 2169 | 2223 |
| GCC ATG TTA | TTT CCA ATA | ATA ACC CAT | СТТ ССТ САА |
| CCC | TTT | ATA | |

FIGURE 2H

The state of the s

| 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449 7484349 g1762 |
|--|---|--|--|---|--|
| MKISMINYKSLLALL-FILASWIIFTVFQN 323 MSSNTMLQKTLLILISESVVTWMIFIISQN 748 MLHK-YLKLICLLAAICVLCIISON 91 | K V W S A L N L S I S L H Y W N N S T K S L F P K T P L K L W S A L N L S I S V H Y W N N S A K S L F P K T S L X I W G A L K L P N S H Y Y S N T S M I S S I P K M S V | PLTETELRIKEIIEKLDQQIPPRPFT PLTETELRIKEIIEKLDQQIPPRPT SLTETELRVKEILEKLDRLIPPRPT | NTTTSATHSTATILNPRDTYCRGDQLHI NTTTSATHSTATILNPRDTYCRGDQLDI NTTTSATHSTATILNPQDKYCVGDQLDI | LEVRDHLGRRKQYGGDFLRARMSSPALMALEVRDHLGQRKQYGGDFLRARMSSPALTALEVRDYLGHQKEYGGDFLRARMFSPALKA | GASGKVTDFNNGTYLVSFTLFWEGQVSLSL GASGKVMDFNNGTYLVSFTLFWEGQVSLSL GASGKVTDFNNGTYLVSFTLFWEGQVSLSV |
| | 33 25 | | | 0 1 | 150 151 145 |

FIGURE 3A

| 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449 7484349 g1762 | 3229449] 7484349] g1762 |
|---|---|--|--|---------------------------------|---------------------------------|
| 10 LLIHPSEGVSALWSARNQGYDRVIFTGQFV 13 LLIHPSEGASALWRARNQGYDKIIFKGKFV 15 LLIHPSEGASALWRARNQGYDRIIFKGQFV | 10 NGTSQVHSECGLILNTNAELCQYLDNRDQE 11 NGTSHVFTECGLTLNSNAELCEYLDDRDQE 35 NGTSHVFTECSLTLNSNTEECKYLNGRDQD | 240 GFYCVRPQHMPCAALTHMYSKNKKVSYLSK 241 AFYCMKPQHMPCEALTYMTTRNREVSYLTD 235 VFYCMKPQHMPCEALTHVTSRNRDISYLTS | 270 QEKSLFERSNVGVEIMEKFNTISVSKCN271 KENSLFHRSKVGVEMMKDRKHIDVTNCNKR 265 KEKNLFHRSKVGVEIMKNQ-HIDVSQCNKS | 298 | |
| 180 181 175 | 210 211 205 | N N N | <i>!</i> <i>!</i> | 2 0 0 | 2 W W |

FIGURE 3B

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FIGURE 3C

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